



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#4/A  
WM  
9/9/03

Applicant: GANG LUO ET AL.

Serial No.: 09/842,991

Filed: April 26, 2001

For: METHOD AND APPARATUS FOR  
PERFORMING HASH JOIN

§ Group Art Unit: 2172

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Examiner: Chongshan Chen

Atty. Dkt. No.: NCR.0038US  
(9558)

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SEP 04 2003

Technology Center 2100

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

REPLY TO OFFICE ACTION MAILED MAY 27, 2003

Dear Sir:

In response to the Office Action of May 27, 2003, please amend the above-identified application as follows:

Amendments to the Claims begin on page 2 of this paper.

Remarks/Arguments begin on page 10 of this paper.

09/02/2003 SSESHE1 00000080 501673 09842991

01 FC:1202 54.00 DA

Date of Deposit: August 27, 2003  
I hereby certify under 37 CFR 1.8(a) that this correspondence is being deposited with the United States Postal Service as **first class mail** with sufficient postage on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313.  
Dawn L. Thomas  
Dawn L. Thomas

**AMENDMENT TRANSMITTAL LETTER (Large Entity)**Applicant(s): **GANG LUO ET AL.**

Docket No.

**NCR.0038US(9558)**Serial No.  
**09/842,991**Filing Date  
**April 26, 2001**Examiner  
**Chongshan Chen**Group Art Unit  
**2172**Invention: **METHOD AND APPARATUS FOR PERFORMING HASH JOIN****RECEIVED****SEP 04 2003**TO THE COMMISSIONER FOR PATENTS:**Technology Center 2100**

Transmitted herewith is an amendment in the above-identified application.

The fee has been calculated and is transmitted as shown below.

**CLAIMS AS AMENDED**

	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST # PREV. PAID FOR	NUMBER EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE
TOTAL CLAIMS	35 -	32 =	3 x	\$18.00	\$54.00
INDEP. CLAIMS	3 -	3 =	0 x	\$84.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT					\$54.00

- ☐ No additional fee is required for amendment.
- ☒ Please charge Deposit Account No. **50-1673(9558)** in the amount of **\$54.00**
- ☐ A check in the amount of \_\_\_\_\_ to cover the filing fee is enclosed.
- ☒ The Director is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. **50-1673(9558)**
- ☒ Any additional filing fees required under 37 C.F.R. 1.16.
- ☒ Any patent application processing fees under 37 CFR 1.17.

  
Signature

Dated:

**8-27-03**

**Dan C. Hu**  
Reg. No. 40,025  
**TROP, PRUNER & HU, P.C.**  
8554 Katy Freeway  
Suite 100  
Houston, Texas 77024

I certify that this document and fee is being deposited on **8/27/2003** with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-7450.

  
Signature of Person Mailing Correspondence**Dawn L. Thomas**

Typed or Printed Name of Person Mailing Correspondence

CC: